

ARIZONA HIV/AIDS

Semi-Annual Surveillance Report

Volume 10, Number 1
Issued August 2003



Division of Public Health Services
Bureau of Epidemiology and Disease Control
Office of HIV/AIDS Services



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(Please note, that in September 2003, the above address & phone number will become effective for the Arizona Department of Health Services, Office of HIV/AIDS.)

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EXECUTIVE SUMMARY

HIV/AIDS Semi-Annual Report - August 2003 State of Arizona

Since 1981, the year for which initial HIV/AIDS cases were reported in Arizona, there have been a total of 8,785 AIDS cases and 5,545 cases of HIV only (non-AIDS) reported to the Arizona Department of Health Services. Of these, 53 percent of AIDS cases and 9 percent of HIV cases are known to be deceased.

Cases of HIV and AIDS are distributed disproportionately in Arizona's urban centers. Maricopa County, encompassing all of the Greater Phoenix Area, the state's largest metropolitan area, has 60% of Arizona's population and 70% of the reported AIDS cases and 72% of the reported HIV cases. Pima County, the next most populous urban county with 16% of the state's population, has 20% of the state's AIDS cases and 19% of its HIV cases. The remaining cases, less than one-fourth of the total, are found scattered across the state's other 13 counties. None of these 13 counties has a population greater than 200,000 persons.

Throughout the epidemic in Arizona the majority of AIDS cases have been male, with men comprising 91 percent of AIDS cases and 86 percent of HIV cases in the state. The proportion of female HIV cases is increasing. For the three-year period 1985 to 1987, 7.4% were female, whereas the three-year period 2000-2002 finds that proportion climbing to 14% of cases.

In the past decade, the incidence rate for AIDS has shown a steady decrease over the last several years, 14.7 per 100,000 in 1990 vs 8.0 per 100,000 in 2000, while HIV incidence has shown a slight increase from 7.4 per 100,000 in 2000 to 7.8 in 2002. The annual incidence rate of AIDS and HIV in the state of Arizona is roughly half the national rate. ADHS and CDC will be investigating whether the recent increase in HIV cases both in Arizona and nationally is due to the reporting of recent infections or the reporting of newly discovered, yet older, infections.

The proportion of total AIDS cases among White population compared to people of color in Arizona has decreased over the years, from 83 percent White for AIDS cases in the 1980s, to 70 percent White in 1994 (the year that followed the expansion of the inventory of AIDS-defining illnesses), to 56 percent White over the three-year period 2000-2002. Conversely, this means that the proportion of AIDS cases among people of color in Arizona has increased to nearly one-half the total number of cases for the period 2000-2002. However, the mean age of HIV cases (33.6) and AIDS (36.6) for people of color is significantly lower than that of the White population for HIV (35.2) and AIDS (38.1) (Independent Samples Test, $p < .0001$, respectively).

The number of pediatric AIDS cases (children under age 13) has increased in the state of Arizona in recent years. By far, the majority of pediatric AIDS cases recorded for the state of Arizona, 13 cases, or 30 percent of the total of 43, were reported during the three-year period 2000-2002.

The predominant mode of transmission of HIV reported for the epidemic in Arizona has been men-who-have-sex-with-men (MSM) (68% of male infections, 62% overall), followed by intravenous drug use (with/without MSM) and heterosexual sexual relations. Likewise, modes of infection have shown shifts in frequency from the early years of the epidemic in Arizona, with MSM dropping from 67 percent in the 1980's to 55 percent over the three-year period 2000-2002.

The number of deaths among Persons With AIDS in the state showed a marked decrease in the late 1990s, attributable to multi-drug treatment combinations that were introduced early in the 1990s as well as the advent of multiple protease inhibitors in the mid 1990s. For each year in the past eight years, time between diagnosis and death has lengthened and the number of AIDS-related deaths has decreased.

ARIZONA HIV INFECTION SURVEILLANCE REPORT
Arizona Department of Health Services
Disease Prevention Services
Cumulative Cases Through June 30, 2003
Acquired Immunodeficiency Syndrome (AIDS*) Summary

Disease Category*	Adult/Adolescent		Pediatric		Total	
	Cases (%)	Deaths (%)	Cases (%)	Deaths (%)	Cases (%)	Deaths (%)
PCP alone	2381 (27)	1716 (72)	10 (23)	7 (70)	2391 (27)	1723 (72)
KS alone	315 (4)	188 (60)	1 (2)	0 (0)	316 (4)	188 (59)
Others, no PCP or KS	3045 (35)	1947 (64)	29 (67)	24 (83)	3074 (35)	1971 (64)
Post 1993 Definition	3001 (34)	762 (25)	3 (7)	2 (67)	3004 (34)	764 (25)
Total	8742 (100)	4613 (53)	43 (1)	33 (77)	8785 (100)	4646 (53)

Cases total 100%. Deaths represent percentage of cases.

Age	Cases (%)	Race/Ethnicity	Adult/Adolescent Cases *** (%)	Pediatric Cases (%)	Total Cases (%)
Under 5	25 (0)	White, Not Hispanic	6082 (69)	20 (46)	6102 (69)
5-12	15 (0)	Black, Not Hispanic	722 (8)	9 (21)	731 (8)
13-19	44 (1)	Hispanic	1588 (17)	11 (26)	1599 (17)
20-29	1474 (17)	Asian/Pacific Island	47 (1)	0 (0)	47 (1)
30-39	3952 (45)	Native American	262 (3)	3 (7)	265 (3)
40-49	2306 (26)	Unknown	41 (2)	0 (0)	41 (2)
Over 49	965 (11)				
Unknown	4 (0)				
Total	8785 (100)	Total	8742 (100)	43 (100)	8785 (100)

* KS=Kaposi's Sarcoma, PCP=*pneumocystis carinii* pneumonia.

** Pediatric exposure table includes 11 adult AIDS cases originally diagnosed as pediatric HIV cases (pediatric exposure).

*** Adult/Adolescent age is <12.

Adult/Adolescent Exposure Category	Males (%)	Females (%)	Total (%)
Men who have sex with men	5375 (68)	N/A	5375 (62)
Injecting drug user	814 (10)	304 (38)	1118 (13)
Men who have sex with men and inject drugs	959 (12)	N/A	959 (11)
Hemophiliac	70 (<1)	2 (0)	72 (<1)
Heterosexual contact with high risk individual	211 (3)	325 (40)	536 (6)
Transfusion with blood or blood products	103 (1)	67 (8)	170 (2)
Occupational exposure	0 (0)	1 (0)	1 (0)
None of the above/unknown	391 (5)	111 (14)	502 (6)
Total { % of all adult exposure cases }	7923 { 91 }	810 { 9 }	8733 (100)

Pediatric Exposure Category**	Males (%)	Females (%)	Total (%)
Hemophiliac	16 (47)	0 (0)	16 (31)
Mom at risk or has HIV/AIDS	14 (41)	15 (83)	29 (56)
Transfusion with blood or blood products	3 (9)	2 (11)	5 (10)
None of the above/unknown	1 (3)	1 (6)	2 (4)
Total { % of all pediatric exposure cases }	34 { 65 }	18 { 35 }	52 (100)

**Acquired Immunodeficiency Syndrome (AIDS)
Surveillance Report - June 30, 2003**

County of Residence	Cases	(%)	Deaths	County of Residence	Cases	(%)	Deaths
Apache	27	(<1)	13	Mohave	140	(2)	74
Cochise	98	(1)	53	Navajo	38	(<1)	24
Coconino	93	(1)	38	Pima	1779	(20)	959
Gila	21	(<1)	11	Pinal	174	(2)	77
Graham	24	(<1)	9	Santa Cruz	29	(<1)	13
Greenlee	3	(<1)	2	Yavapai	107	(1)	56
La Paz	18	(<1)	8	Yuma	108	(1)	50
Maricopa	6125	(70)	3258	Unknown	1	(1)	1
				Totals	8785	(100)	4646

Reported Cases of AIDS and Case-Fatality Rates by Year of Diagnosis			
Year	Cases	Deceased	Percent Deceased
1981	1	1	100%
1982	5	5	100%
1983	11	9	82%
1984	32	30	94%
1985	100	96	96%
1986	174	166	95%
1987	316	291	92%
1988	372	328	88%
1989	481	428	89%
1990	541	471	87%
1991	564	494	88%
1992	721	551	76%
1993	692	440	64%
1994	647	365	56%
1995	696	334	48%
1996	560	179	32%
1997	527	125	24%
1998	517	123	24%
1999	438	74	17%
2000	413	44	10%
2001	409	43	10%
2002	438	39	9%
2003	130	10	8%
Totals	8785	4646	

AIDS Cases by Race/Ethnicity and Year of Diagnosis, Arizona 1981 - 2003

Race/ Ethnicity	YEAR OF DIAGNOSIS																		Total for race
	1981-6	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*	
White	279	263	309	385	426	438	540	520	453	482	388	315	312	239	230	224	235	64	6102
Black	13	15	17	28	30	35	53	55	64	41	54	51	47	57	46	53	57	15	731
Hispanic	27	30	38	58	72	76	105	102	112	138	96	138	127	107	107	99	117	50	1599
Asian/Pac. Island	2	2	1	2	3	2	3	2	2	7	5	2	3	0	5	3	3	0	47
Native American	1	5	6	7	9	11	18	13	13	23	17	19	25	30	21	22	24	1	265
Unknown	1	1	1	1	1	2	2	0	3	5	0	2	3	5	4	8	2	0	41
Total for year*	323	316	372	481	541	564	721	692	647	696	560	527	517	438	413	409	438	130	8785

Male AIDS Cases by Race/Ethnicity and Year of Diagnosis, Arizona 1981 - 2003

Race/ Ethnicity	YEAR OF DIAGNOSIS																		Total for race
	1981-6	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*	
White	264	243	289	369	398	411	511	480	423	437	351	285	277	215	207	204	205	62	5631
Black	13	15	14	27	28	34	44	49	51	34	44	40	33	46	34	39	45	12	602
Hispanic	26	27	38	55	68	71	94	86	105	120	83	119	116	95	91	89	101	42	1426
Asian/Pac. Island	2	2	1	2	3	1	3	1	2	7	4	2	2	0	3	3	2	0	40
Native American	0	4	4	5	8	9	14	10	12	19	14	18	21	26	16	19	21	1	221
Unknown	1	1	1	1	1	2	1	0	3	4	0	2	3	5	3	7	1	0	36
Total for year*	306	292	347	459	506	528	667	626	596	621	496	466	452	387	354	361	375	117	7956

Female AIDS Cases by Race/Ethnicity and Year of Diagnosis, Arizona 1981 - 2003

Race/ Ethnicity	YEAR OF DIAGNOSIS																		Total for race
	1981-6	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*	
White	15	20	20	16	28	27	29	40	30	45	37	30	35	24	23	20	30	2	471
Black	0	0	3	1	2	1	9	6	13	7	10	11	14	11	12	14	12	3	129
Hispanic	1	3	0	3	4	5	11	16	7	18	13	19	11	12	16	10	16	8	173
Asian/Pac. Island	0	0	0	0	0	1	0	1	0	0	1	0	1	0	2	0	1	0	7
Native American	1	1	2	2	1	2	4	3	1	4	3	1	4	4	5	3	3	0	44
Unknown	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	4
Total for year*	17	24	25	22	35	36	53	66	51	75	64	61	65	51	59	48	63	13	828

* Cases for 2003 on pages 7 and 8 represent partial data for the first half of the year

AIDS Cases by Exposure Category and Year of Diagnosis, Arizona 1981 - 2003

Exposure Category	YEAR OF DIAGNOSIS																		Total for exp.
	1981-6	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*	
Men sex w/men	224	201	245	331	355	369	457	418	385	426	343	318	293	228	221	239	241	81	5375
Injecting drug use	20	24	36	40	63	54	78	93	78	93	89	74	82	64	65	66	81	18	1118
MSM/IDU	43	32	48	66	64	76	107	75	74	71	43	46	46	41	39	35	41	12	959
Hemophiliac	9	12	8	8	7	5	7	6	10	5	4	1	1	0	3	1	1	0	88
Heterosexual	3	11	8	8	17	23	30	42	33	47	32	49	52	42	44	29	50	16	536
Transfusion	17	22	14	15	13	12	13	16	6	5	8	4	8	7	7	5	3	0	175
Ped mom with HIV	1	0	1	3	2	2	2	3	5	1	0	1	5	2	0	1	0	0	29
None of abov/unk	6	14	12	10	20	23	27	39	56	48	41	34	30	54	34	33	21	3	505
Total for year*	323	316	372	481	541	564	721	692	647	696	560	527	517	438	413	409	438	130	8785

Male AIDS Cases by Exposure Category and Year of Diagnosis, Arizona 1981 - 2003

Exposure Category	YEAR OF DIAGNOSIS																		Total For exp.
	1981-6	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*	
Men sex w/men	224	201	245	331	355	369	457	418	385	426	343	318	293	228	221	239	241	81	5375
Injecting drug use	14	20	23	30	44	41	56	65	66	68	64	54	57	50	41	51	54	15	813
MSM/IDU	43	32	48	66	64	76	107	75	74	71	43	46	46	41	39	35	41	12	959
Hemophiliac	9	12	8	8	7	5	7	5	10	5	3	1	1	0	3	1	1	0	86
Heterosexual	0	5	2	5	8	7	13	18	8	16	9	17	22	21	21	15	18	6	211
Transfusion	10	11	9	9	10	9	9	11	3	3	3	2	5	4	3	3	2	0	106
Ped mom with HIV	1	0	1	1	0	0	0	2	2	0	0	1	3	2	0	1	0	0	14
None of above/unk	5	11	11	9	18	21	18	32	48	32	31	27	25	41	26	16	18	3	392
Total for year*	306	292	347	459	506	528	667	626	596	621	496	466	452	387	354	361	375	117	7956

Female AIDS Cases by Exposure Category and Year of Diagnosis, Arizona 1981 - 2003

Exposure Category	YEAR OF DIAGNOSIS																		Total for exp.
	1981-6	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003*	
Injecting drug use	6	4	13	10	19	13	21	28	12	25	25	20	25	14	24	15	27	3	304
Hemophiliac	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
Heterosexual	3	6	6	3	9	16	17	24	25	31	23	32	30	21	23	14	32	10	325
Transfusion	7	11	5	6	3	3	4	5	3	2	5	2	3	3	4	2	1	0	69
Ped mom with HIV	0	0	0	2	2	2	2	1	3	1	0	0	2	0	0	0	0	0	15
None of above/unk	1	3	1	1	2	2	9	7	8	16	10	7	5	13	8	17	3	0	113
Total for year*	17	24	25	22	35	36	53	66	51	75	64	61	65	51	59	48	63	13	828

Arizona Department of Health Services
Disease Prevention Services
Cumulative Cases Through June 30, 2003
HIV Infection Summary

Age	Cases	*(%)
Under 5	33	(1)
5-12	12	(<1)
13-19	103	(2)
20-29	1868	(34)
30-39	2215	(40)
40-49	932	(17)
Over 49	336	(6)
Unknown	46	*[1]
Total	5545	(100)

Race/Ethnicity	Adult/Adolescent Cases	*(%)	Pediatric Cases	*(%)	Total Cases*(%)
White, Not Hispanic	3521	(64)	27	(58)	3548 (64)
Black, Not Hispanic	578	(11)	11	(24)	589 (11)
Hispanic	1007	(18)	6	(13)	1013 (18)
Asian/Pacific Island	35	(1)	0	(0)	35 (1)
Native American	163	(3)	2	(4)	165 (3)
Unknown	195	*[3]	0	*[0]	195 *[3]
Total (100)	5499	(100)	46	(100)	5545 (100)

Adult/Adolescent Exposure Category	Males *[%]	Females *[%]	Total *[%]
Men who have sex w/ men	2873 [60]	N/A	2873 [52]
Injecting drug user	510 [11]	234 [32]	744 [14]
Men who have sex w/ men & inject drugs	448 [9]	N/A	448 [8]
Hemophiliac	25 [<1]	0 [0]	25 [<1]
Heterosexual contact w/ high risk person	125 [3]	309 [41]	434 [8]
Transfusion with blood or blood products	33 [<1]	19 [3]	52 [1]
None of the above/unknown**	745 [16]	179 [24]	924 [17]
Total { % of all adult cases}	4759 {86}	741 {14}	5500 {100}

* Percentages within [] are based on the total number of reported cases, including cases with missing or unknown data.

** This category consists of persons who lacked available information for reclassification into an exposure category.

Pediatric Exposure Category	Males (%)	Females (%)	Total (%)
Hemophiliac	2 (10)	0 (0)	2 (4)
Mom at risk or has HIV/AIDS	19 (90)	21 (88)	40 (89)
Transfusion with blood or blood products	0 (0)	2 (8)	2 (4)
Confirmed sexual abuse	0 (0)	0 (0)	0 (0)
None of the above/unknown	0 (0)	1 [4]	1 (2)
Total { % of all pediatric exposure cases}	21 {47}	24 {53}	45 {100}

Perinatally Exposed to HIV Infection (HIV not yet confirmed)***	Males (%)	Females (%)	Total (%)
Total { % of all perinatally exposed cases}	41 {58}	29 {42}	70 {100}

*** Perinatal HIV exposure occurs when the mother is HIV positive during her pregnancy. The HIV status of these infants cannot be confirmed at birth. Patients may remain in this category beyond 18 months of age if adequate testing information is not available for the child.

HIV Infection Surveillance Report
Arizona Cumulative Data - June 30, 2003

County of Residence	Cases	(%)	Deaths	County of Residence	Cases	(%)	Deaths
Apache	10	(<1)	1	Mohave	73	(1)	5
Cochise	57	(1)	7	Navajo	19	(<1)	2
Coconino	45	(1)	4	Pima	1068	(19)	90
Gila	7	(<1)	1	Pinal	123	(2)	8
Graham	13	(<1)	0	Santa Cruz	11	(<1)	1
Greenlee	2	(<1)	0	Yavapai	68	(1)	2
La Paz	6	(<1)	0	Yuma	59	(1)	6
Maricopa	3983	(72)	351	Unknown	1	(<1)	0
				Totals	5545		478

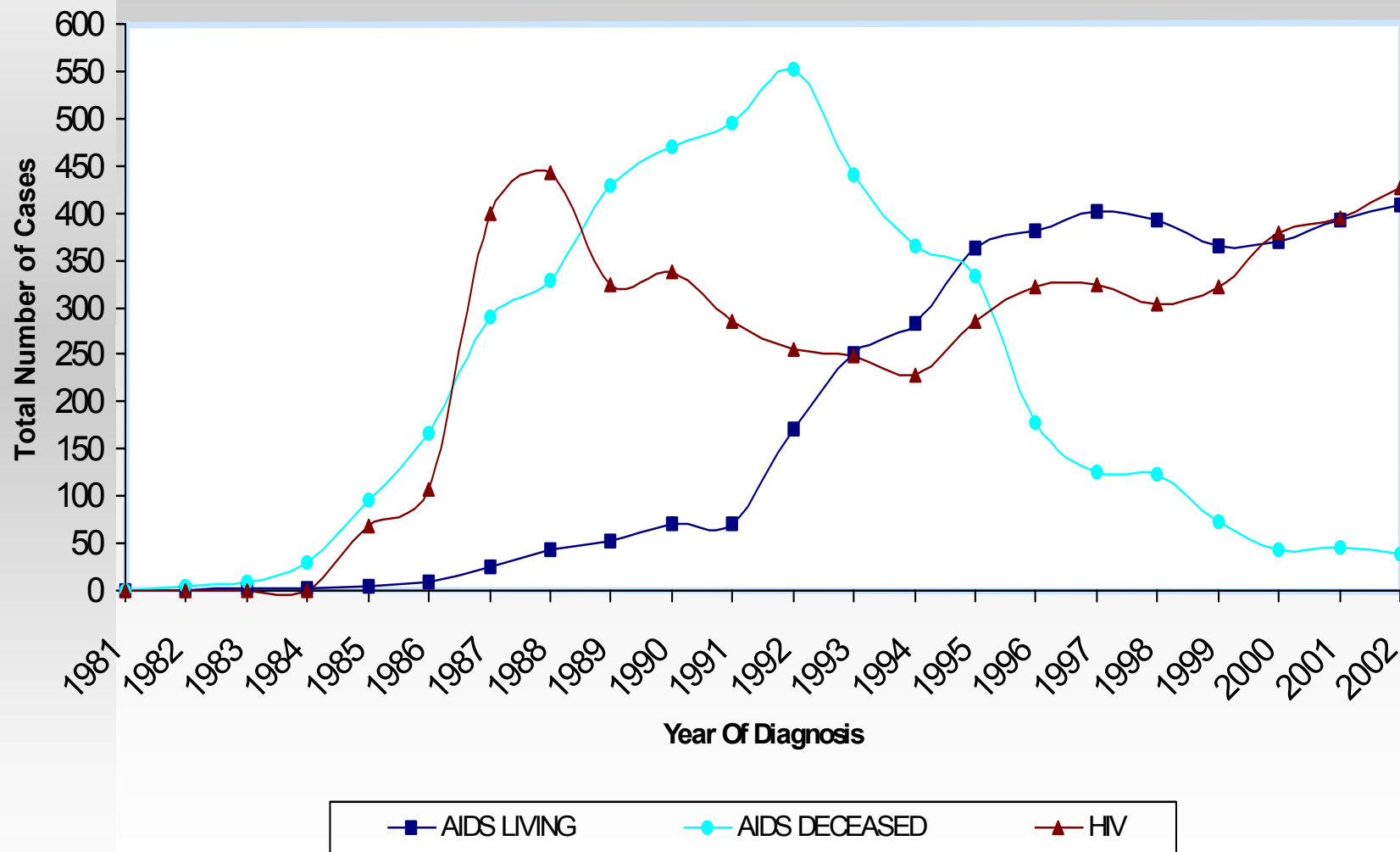
Non-cumulative Data

Reported HIV Infections (excluding AIDS cases) by Year of Date Tested		
Year	Number of Cases	Number of Positive anonymous tests*
1985	68	—
1986	108	—
1987	399	—
1988	442	—
1989	325	378
1990	337	407
1991	285	444
1992	255	371
1993	248	352
1994	227	273
1995	285	259
1996	322	368
1997	324	304
1998	304	288
1999	321	349
2000	378	323
2001	394	318
2002	426	342
2003	97	180
Totals**	5545	4956

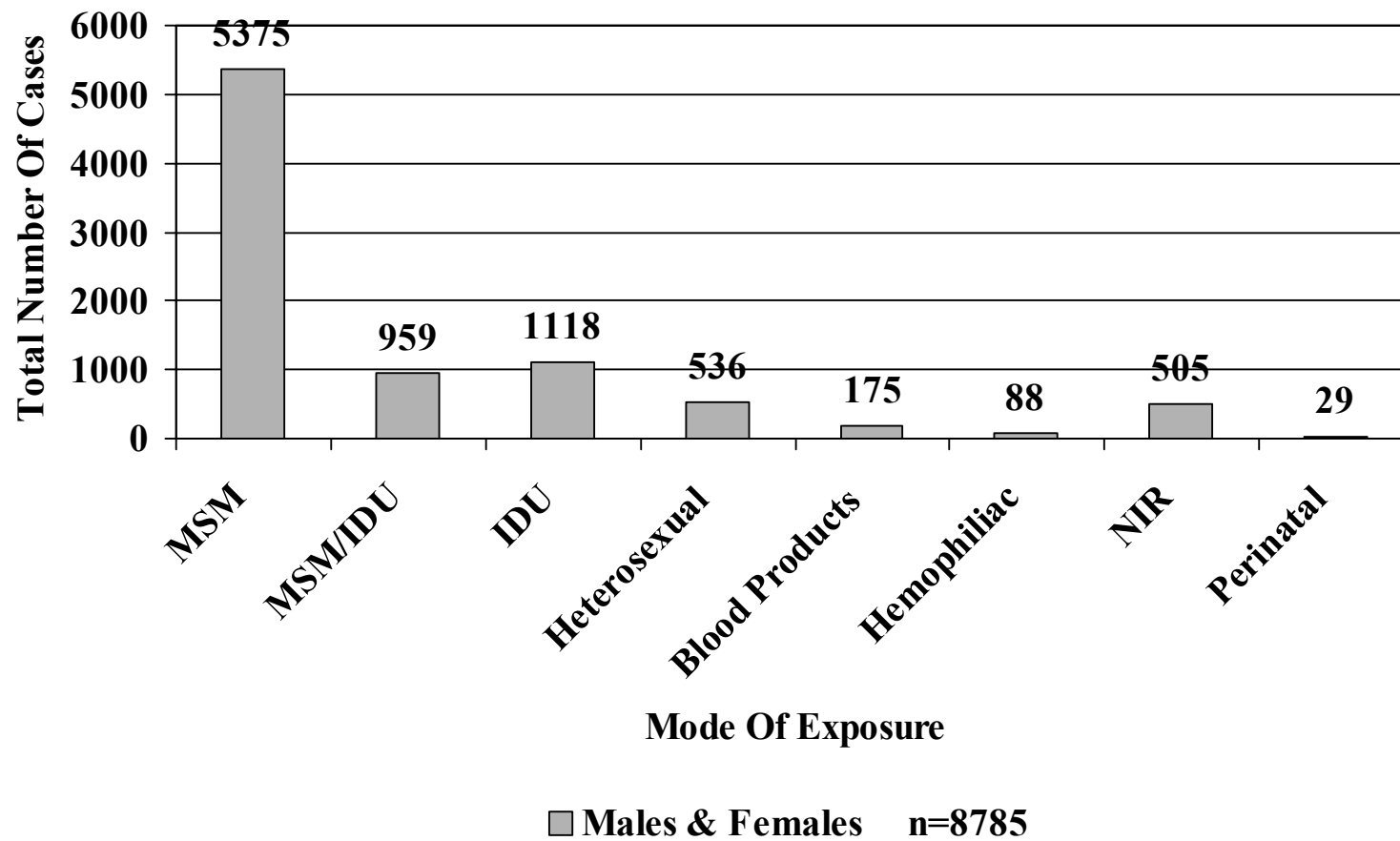
* On March 15, 1989, the option to receive anonymous testing became available in the state of Arizona.

** Total includes 19 cases with test date not reported.

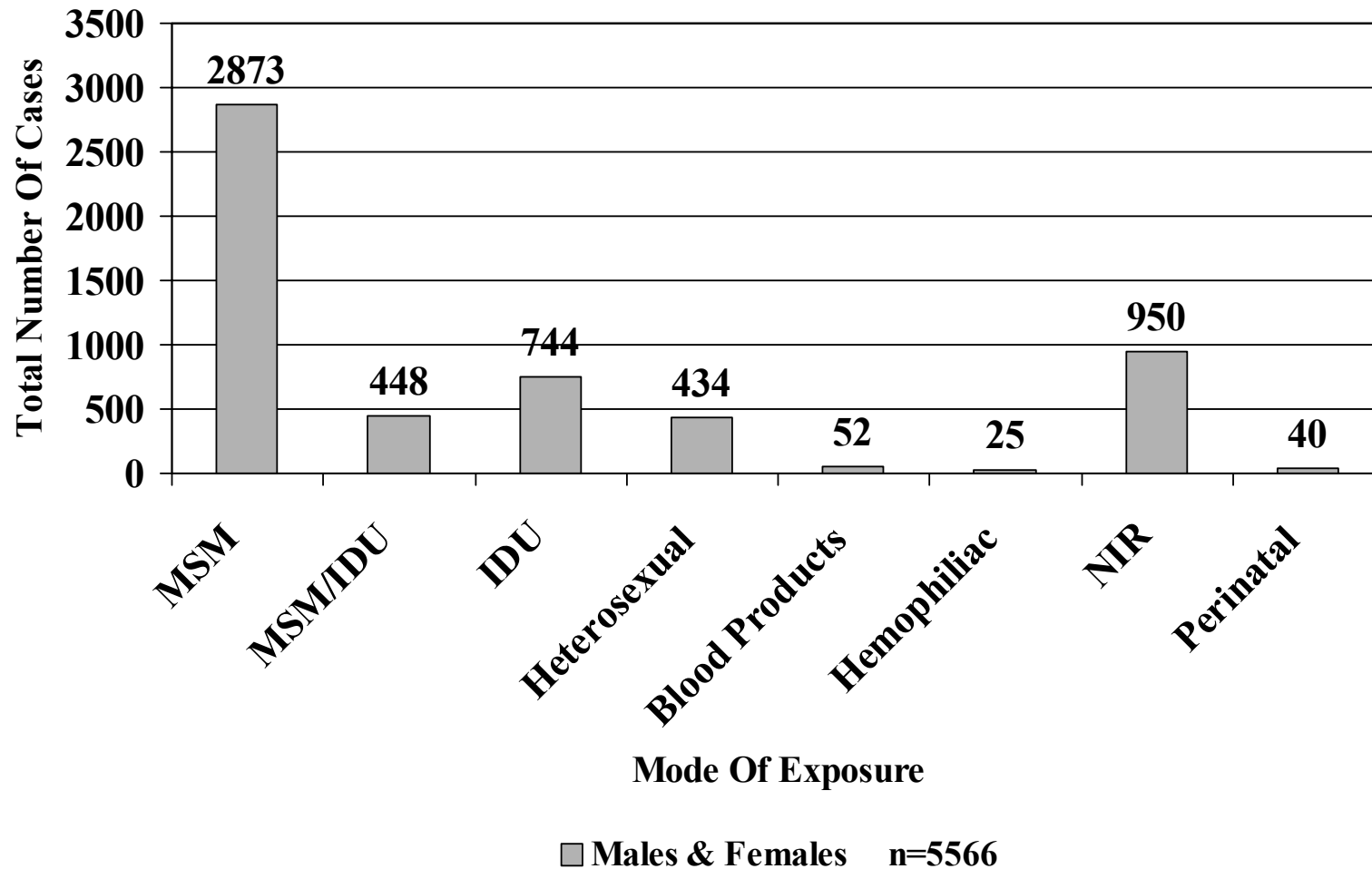
REPORTED HIV AND AIDS CASES IN ARIZONA **1981 - 2002 Diagnosis (As of June 30, 2003)**



MODE OF EXPOSURE FOR AIDS CASES IN ARIZONA
Diagnosed Between 1981 & 2003 (As of June 30, 2003)



MODE OF EXPOSURE FOR HIV CASES IN ARIZONA
Diagnosed Between 1981 and 2003 (As of June 30, 2003)



United States AIDS Summary

U.S. AIDS cases reported through December 31, 2001

<http://www.cdc.gov/hiv/stats.htm>

Cumulative AIDS Cases by Sex

SEX	NUMBER OF CASES	PERCENT OF CASES
Adult Male	666,026	82
Adult Female	141,048	17
Pediatric Male & Female	9,074	1
Total	816,149**	100

Cumulative AIDS Cases by Race/ethnicity

RACE	NUMBER OF CASES	PERCENT OF CASES
White, not Hispanic	343,889	42
Black	313,180	38
Hispanic	149,752	18
Asian/Pacific Islander	6,157	1
Native American	2,537	<1
Unknown	634	<1
Total	816,149	100

Cumulative AIDS Cases by Age at Diagnosis

AGE IN YEARS	NUMBER OF CASES	PERCENT OF CASES
0-12	9,074	1
13-19	4,428	<1
20-29	133,725	16
30-39	362,021	44
40-49	216,387	27
50 and over	90,513	11
Total	816,149***	100

AIDS Cases, Case Fatalities

AGE	NUMBER OF DEATHS
Under 15	5,257
15 and over	462,653
Total	467,910****

* Source of U.S. data: Centers for Disease Control and Prevention. HIV/AIDS Surveillance Report, 2001; Vol. 13, No.2.

** Total includes 4 Individuals with unknown sex

*** Total includes 1 individual with unknown age

**** Total includes 412 individuals with unknown age at death

COMMUNITY RESOURCES

Phoenix Metro Area

Maricopa County Department of Public Health*
HIV Counseling and Testing: 602-506-1678

Tucson Metro Area

Pima County Health Department*
General Information: 520-791-7676
HIV Counseling and Testing: 520-791-7676

Flagstaff Area

Coconino County Health Department*
General Information: 928-522-7800
HIV Counseling and Testing: 928-522-7892

Cochise County

Cochise County Health and Social Services*
General Information: 520-432-9472
HIV/AIDS Services and Counseling and Testing: 520-432-9472

Yuma Area

Yuma County Health Department*
General Information: 928-317-4550
HIV Counseling and Testing: 928-317-4580 Ext. 1735

Statewide

Arizona Department of Health Services
Office of HIV/AIDS
1-800-334-1540

National AIDS Hotline

1-800-342-2437 or 1-800-342-AIDS (English)
1-800-344-7432 (Spanish)
1-800-243-7889 (TTY/TDD)

*Free HIV counseling & testing services available at these sites